New nuclear plants are challenging mega projects and require specialized:

- people
- culture
- planning
- tools
- licensing
- design/analysis
- quality assurance
- programs
- training

Having a reactor OEM on your side can help ensure success
Nuclear OEM experience and insight on your side

GE Hitachi advantage:
- 60 years of global nuclear project experience as an Original Equipment Manufacturer (OEM)
- Big picture assistance or focused support, depending on needs
- Independent experts in an extensive range of regulatory, engineering and project disciplines
- Expertise, programs and experience applicable to all reactor types
- Access to partners for complementary support areas (e.g., Owner’s Engineer)

Supporting a full range of nuclear new build services:

Analysis and Design
- Design of structures, systems, and components
- I&C architecture, cyber security, human factors engineering
- Thermal hydraulic analysis
- Probabilistic risk/safety analysis
- Risk/reliability analysis
- Independent verifications
- Design reviews

Training and Human Resource Development
- Nuclear safety conscious culture
- Technology
- Risk management
- Lessons learned
- Leadership/management
- Operations and Maintenance (O&M)

Regulatory, Licensing and Permitting
- Regulatory framework development
- Requirements management
- Compliance analysis/assessment
- Maintenance/change control
- Codes and standards evaluation
- Licensing documentation

Project and Program Development
- Design process and tools
- Configuration management
- Quality assurance program
- Supply chain development and oversight
- Testing program and tool development
- Project management

Evaluations, Studies and Planning
- Site characterization study
- Dose consequence analyses
- Cooling water and grid studies
- Seismic and structural analysis
- Probabilistic risk/safety assessment (PRA/PSA)

Testing and O&M
- Construction testing and commissioning planning support
- Test spec and procedure development, assessment and review
- Refueling outage optimization
- Plant operations procedures
- Online maintenance program
- Digital asset management and O&M optimization with Predix

Flexible, wide spectrum of approaches:

For more information, contact your GE Hitachi Nuclear Energy New Plants representative or visit us at: nuclear.gepower.com
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